

**METHODS FOR PREPARING FLUID DIFFUSION LAYERS  
AND ELECTRODES USING COMPACTION ROLLERS**

**Abstract**

Methods of preparing a fluid diffusion layer comprise continuously applying a loading material to a substrate and continuous compacting the substrate and loading material applied thereto with at least one compaction roller. Methods of preparing an electrode comprise continuously applying an electrocatalyst to a fluid diffusion layer and continuously compacting the fluid diffusion layer and electrocatalyst applied thereto with at least one compaction roller. The methods can be employed in a continuous process and can increase the penetration and adhesion of the loading material.

5

10